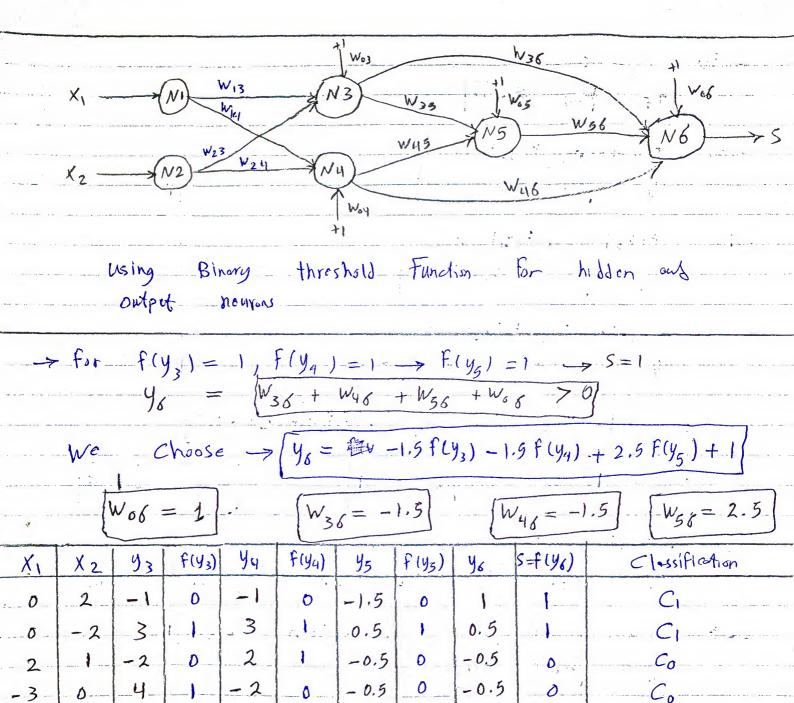
Section 2 5 ection 2
- Chosing The orientation . Shown in . X,-X; place (0,0) 1/2
$-Line \rightarrow (-0,1)$, $(-1,0)$
$\frac{X1 - 0}{X_2 - 1} = \frac{1 - 0}{0 - 1}$
$-X_1 = X_2 - 1$
testing the orientation using $(0,0)$ Lines. Lesting the orientation using $(0,0)$ Lines. Lesting the orientation using $(0,0)$ Lines. Lines $(1,1)$ Lines.
$-$ Line 2 \rightarrow ((0,1), (-1,0)
$\frac{X_1 - 0}{X_2 - 1} = \frac{0 - (-1)}{1 - 0}$
$X_2 - 1 = X_1$ $X_1 - X_2 + 1 = 0$
testing the orientation using (0,0)
$\begin{bmatrix} X_1 - X_2 + 1 = 0 \end{bmatrix} \text{ Line } 2$
- we have two sepretion Lines - so we need to two nourons in the hidden

Lay er

using the neuron N3 to r * Activation of N3	epresent the	_Line1_		
*- Activation of N3	- medition du auto-describidamente de describe de selection application plans plans from	otta de d'Attanon desente communica traggio deput actual gina aprimera responsa		nama antikatratus. Mantaurasa se<u>ssatus apparatu</u>s sine 1876 - 1,
$\frac{\text{Activation of }N3}{y_3} = W_{13} \times 1 + W_{23}$				
$y_3 = 0 \longrightarrow -X_1 -$	$X_2 + 1 = 0$			
$\begin{bmatrix} W_{13} = -1 \end{bmatrix}$	3=1	[W03=	= 1]	
- Using the neuron N4 t	o represent	the L	ine 2	en hand de hindren plater han transc han hand a plater and a plate
* Activation of NY			and the state of t	ern ta sahasanahanahana sejententai selek danahan
y = w x X, + w 24	X2+ Woij-			
$y_{q} = 0 \longrightarrow X_{1}$	Xz,+-1-=	0		
-to provide the required c	Ilassification	With	the ch	nasch
orientation, we need to	perform)	XNOR_	Deration-	2000 200 Common
on the output of neuro	nsN3, /	V4	1.	and the second second second second
		:	x 1	<u> </u>
- We Design AND Gote	-F.(y3)	- f(ya)-	f(y3)-f(y1)	5
	0	0 '		
- Activation of # 15			Ó	·
	0	0	· · · · · · · ·)
$y_5 = W_{35} f(y_3) + W_{45} f(y_4) + W_{05}$		1 24	-	
	and with the first state of thickness for the contract of the state of the contract of the con			ا المنظمة المن المنظمة المنظمة

- for
$$f(y_3) = 0$$
, $f(y_4) = 0$
 $y_5 = w_{05} \neq 0$
- for $f(y_3) = 0$, $f(y_1) = 1$
 $y_5 = w_{15} + w_{05} < 0$
- for $f(y_3) = 1$, $f(y_1) = 0$
 $y_5 = w_{35} + w_{05} < 0$
- for $f(y_3) = 1$, $f(y_4) = 1$
 $y_5 = w_{35} + w_{45} + w_{05} > 0$
We choosing $\Rightarrow y_5 = f(y_5) + f(y_4) = 1$. $f(y_5) = 0$
 $f(y_5) = f(y_5) + f(y_4) = 0$
 $f(y_5) = f(y_5) + f($



- No, We can't classify (1,2)
$$\rightarrow$$
 because it lays on the Line 2 $\times 1 - 2 + 1 = 0$